

## **AMENDMENT TO THE CLAIMS**

The following listing of claims will replace all prior versions of claims in the application.

### **LISTING OF CLAIMS:**

Claim 1 (previously presented): A cooling apparatus, comprising a needle that defines an interior channel; and an infusion sleeve that is hollow and elongated between proximal and distal ends, the infusion sleeve being made of a flexible material and being collapsible and expandable axially while the needle is repetitively partially withdrawn and advanced, the needle extending within confines of the infusion sleeve and having a tip that projects outwardly beyond the distal end of the infusion sleeve, the infusion sleeve having an interior surface and the needle having an exterior surface between which is defined a passage for fluid flow, the infusion sleeve at the distal end terminating into peak and valley formations, the valley formations being arranged closer to the proximal end of the infusion sleeve than are the peak formations, the peak formations of the infusion sleeve being in abutment with an exterior of an incision so that flowing fluid through the passage to the distal end of the infusion sleeve and away from the proximal end results in the fluid thereafter to flow across the valley formations.

Claim 2 (original): The cooling apparatus of claim 1, wherein the distal end is serrated or scalloped to define the peak and valley formations.

Claim 3 (original): The cooling apparatus of claim 1, wherein an infusion source is in fluid communication with the passage and a source of suction is in fluid communication with the interior channel of the needle.

Claim 4 (previously presented): The cooling apparatus of claim 1, further comprising a driver of the needle and a control that is configured to direct the driver to drive the needle without manual intervention to move axially relative to the infusion sleeve by a distance back and forth that is greater than that which the needle would otherwise travel.

Claim 5 (previously presented): A method of cooling, comprising extending a needle within confines of an infusion sleeve that is hollow and projecting a tip of the needle outwardly beyond a distal end of the infusion sleeve, defining a passage between an interior surface of the infusion sleeve and an exterior surface of the needle, terminating the infusion sleeve at the distal end by peak and valley formations, arranging the valley formations closer to a proximal end of the infusion sleeve than are the peak formations, and abutting an exterior of an incision with the peak formations of the infusion sleeve; and flowing fluid through the passage to the distal end of the infusion sleeve to thereafter flow across the valley formations, the needle defining an interior channel, the infusion sleeve being elongated between the proximal and distal ends and being made of a flexible material that is collapsible and expandable axially as the needle is repetitively partially withdrawn and advanced.

Claim 6 (original): The method of claim 5, further comprising providing the distal end of the infusion sleeve with serrations or scallops to form the peak and valley formations.

Claim 7 (original): The method of claim 6, further comprising preventing an impediment to the flow of the fluid with the serrations or scallops at the distal end of the infusion sleeve.

Claim 8 (original): The method of claim 5, further comprising creating suction through the needle while the fluid flows to cool the needle.

Claim 9 (original): The method of claim 5, wherein configuring the infusion source to be in fluid communication with the passage and arranging a source of suction in fluid communication with the interior channel of the needle.

Claim 10 (original): The method of claim 5, further comprising repetitively expanding and collapsing the infusion sleeve as the needle repetitively advances and partially withdraws.

Claim 11 (currently amended): A method of preparing to cool, comprising: extending a needle within confines of an infusion sleeve that is hollow and projecting a tip of the needle outwardly beyond a distal end of the infusion sleeve, defining a passage between an interior surface of the infusion sleeve and an exterior surface of the needle, terminating the infusion sleeve at the distal end by peak and valley formations, arranging the valley formations closer to a proximal end of the infusion sleeve than are the peak formations, and abutting an exterior of an incision with the peak formations of the infusion sleeve so that flowing fluid through the passage to the distal end of ~~he~~ the infusion sleeve and away from the proximal end results in the fluid thereafter flowing across the valley formations, the needle defining an interior channel, and the infusion sleeve being elongated between the proximal and distal ends and being made of a flexible material that is collapsible and expandable axially as the needle is repetitively partially withdrawn and advanced.

Claim 12 (original): The method of claim 11, further comprising providing the distal end of the infusion sleeve with serrations or scallops to form the peak and valley formations.

Claim 13 (original): The method of claim 12, further comprising preventing an impediment to the flow of the fluid with the serrations or scallops at the distal end of the infusion sleeve.

Claim 14 (original): The method of claim 11, further comprising creating suction through the needle while the fluid flows to cool the needle.

Claim 15 (original): The method of claim 11, wherein configuring the infusion source to be in fluid communication with the passage and arranging a source of suction in fluid communication with the interior channel of the needle.

Claim 16 (original): The method of claim 11, wherein the fluid flow is across the valley formations but without flowing across the peak formations because of the abutting.